



a review of Totally distributive toposes by Lucyshyn-Wright, Rory B. B.

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Totally distributive toposes. (English summary)

J. Pure Appl. Algebra **216** (2012), no. 11, 2425–2431.

This paper gives a concrete combinatorial description of all totally distributive toposes with a small set of generators. The author achieves this characterization by establishing certain connections among the following works: [F. Marmolejo, R. D. Rosebrugh and R. J. Wood, *J. Pure Appl. Algebra* **216** (2012), no. 8-9, 1775–1790; [MR2925871](#)] and [R. D. Rosebrugh and R. J. Wood, *Proc. Amer. Math. Soc.* **122** (1994), no. 2, 409–413; [MR1216823](#)] on totally distributive categories; [F. E. J. Linton and R. Paré, in *Categorical topology (Proc. Internat. Conf., Free Univ. Berlin, Berlin, 1978)*, 196–206, *Lecture Notes in Math.*, 719, Springer, Berlin, 1979; [MR0544645](#)], [P. T. Johnstone, F. E. J. Linton and R. Paré, in *Categorical topology (Proc. Internat. Conf., Free Univ. Berlin, Berlin, 1978)*, 207–216, *Lecture Notes in Math.*, 719, Springer, Berlin, 1979; [MR0544646](#)] and [P. T. Johnstone and A. Joyal, *J. Pure Appl. Algebra* **25** (1982), no. 3, 255–296; [MR0666021](#)] on injective toposes; [G. M. Kelly and F. W. Lawvere, *Bull. Soc. Math. Belg. Sér. A* **41** (1989), no. 2, 289–319; [MR1031753](#)] and [C. Kennett et al., *J. Pure Appl. Algebra* **215** (2011), no. 5, 949–961; [MR2747230](#)] on essential localizations and essential subtoposes.

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Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.